

REMARKS

Receipt of the Office Action of April 14, 2006 is gratefully acknowledged.

Claims 3 and 4 have been rejected as unpatentable under 35 USC 103(a) over Chamdani in view of Reinman et al. In a bona fide effort to place this application in condition for allowance, claims 3 and 4 have been canceled and replaced with new claims 5 - 7. In new claim 5, which is substantially identical to claim 3, a complementary phrase "and updating the mapping table in accordance with the group of instructions" has been added; with new claims 6 and 7 dependent from new claim 5.

Regarding Reinman et al. (article entitled Classifying Load and Store Instructions for Memory Renaming), what to be tagged are memory addresses, and tagging is conducted for execution of load/store instructions. In the context of the present application, what to be tagged are register numbers, and tagging is conducted for register renaming, which all instructions including load/store instructions are to go through. A very clear difference.

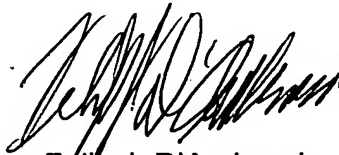
Reinman's MRT tags are used as the index into the Value File, each entry of which is to hold a value or a pointer to a ROB entry (e.g., see p. 401, col. 2). On the other hand, tags of the present application are not used to indicate where corresponding values are to be held. They are, instead, to correspond to issue slots of the free list. Step (b) of new claim 5 states: "(b) renaming each logical-register number associated with a tag to the physical-register number that is taken out of the free list and is allocated in correspondence with the associated tag" (see page 5, line 13 - page 6, line 21 in the specification). This difference is crucial.

Because of these differences, applicant cannot agree with the examiner's position taken in paragraphs 6 - 9 of the Office Actio. It is not unlike

saying that if there had already been a wire and a coil, it would have been obvious to one of ordinary skill to come up with a paper clip.

The examiner is urged in view of the foregoing to reconsider this application with new claims 5 - 7 and find new claims 5 - 7 allowable over all of the art of record.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Felix J. D'Ambrosio', written in a cursive style.

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